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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/784,924	02/24/2004	Yoshitaka Kurosaka	70591-012	1958

7590 01/25/2006

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EXAMINER

BLACKMAN, ROCHELLE ANN J

ART UNIT	PAPER NUMBER
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2851

DATE MAILED: 01/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/784,924

Applicant(s)

KUROSAKA ET AL.

Examiner

Rochelle Blackman

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– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 November 2005.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☐ Claim(s) _____ is/are rejected.
7) ☒ Claim(s) 1-12 is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 24 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2/24/04 & 7/19/04.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Election/Restrictions

Claim 1 is generic and allowable. Accordingly, the restriction requirement as to the encompassed species is hereby withdrawn and claims 3-5, 9, and 10, directed to the species of II-V are no longer withdrawn from consideration since all of the claims to this species depend from or otherwise include each of the limitations of an allowed generic claim.

In view of the above noted withdrawal of the restriction requirement as to the linked species, applicant(s) are advised that if any claim(s) depending from or including all the limitations of the allowable generic linking claim(s) be presented in a continuation or divisional application, such claims may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Claim Objections

Claims 1 and 11 are objected to because of the following informalities:

1. In claim 1, on line 1, "In" should be omitted and "a" should be capitalized; on line 4, the word - -optical- - should be between "different" and "surfaces" to remain consistent with the limitation, "optical surface" in line 17 of the claim; and also on line 4, "its" should be - -a- -. On line 13, "a video light producing device" should be omitted.

On lines 16-18, the limitation "the two light fluxes cross each other on the predetermined optical surface of the color separating and mixing sector", should be rewritten to recite, - -the two light fluxes cross each other on one of the plurality of different optical surfaces of the color separating mixing sector- -, to remain consistent with terminology previously used in claim, thus improving the clarity of the claim. On lines 17-18, the limitation "the

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predetermined reflection type light modulation element", should be rewritten to recite, - - one of the reflection type light modulating elements- -, to remain consistent with terminology previously used in claim, thus improving the clarity of the claim.

2. Claim 11 recites the limitation "the optical element" in line 4 of the claim. There is insufficient antecedent basis for this limitation in the claim.

Appropriate correction is required.

Allowable Subject Matter

1. Claims 1-12 would be allowable if rewritten or amended to overcome the objection(s), set forth in this Office action.

2. The following is a statement of reasons for the indication of allowable subject matter:

Claims 1-12 have been found to be allowable because the prior art of record either alone or in combination neither discloses nor makes obvious the video light producing device comprising the particular feature of the light from the light source being changed into two light fluxes by two rod integrators in combination with the two light fluxes crossing each other on the predetermined optical surfaces of the color separating and mixing sector, to be introduced into a first irradiation area and a second irradiation area of the predetermined reflection type light modulating element, further in combination with the particular combination of features recited in claim 1.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

1. Offner et al. (U.S. Patent No. 4,747,030), Illumination System
2. Masumoto (U.S. Patent No. 5,649,753), Projection Display Apparatus
3. Riser et al. (U.S. Patent No. 5,857,041), Optical Coupler and Method Utilizing Optimal Illumination Reflector
4. Conner et al. (U.S. Patent No. 5,868,481), Centrifugal Illumination System
5. Tiao et al. (U.S. Patent No. 6,318,863), Illumination Device and Image Projection Apparatus Including the Same
6. Ikeda et al. (U.S. Patent Application Publication No. 2003/0011752), Color Separating/Synthesizing Element and Liquid Crystal Projector Using It
7. Janssen (U.S. Patent Application Publication No. 2003/0231262), Compact Light Engine with Light Guides for Projection Display System
8. Shiraishi et al. (U.S. Patent No. 6,710,854), Projection Exposure Apparatus
9. Jain (U.S. Patent Application Publication No. 2005/0162853), Compact, High-Efficiency, Energy-Recycling Illumination System

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rochelle Blackman whose telephone number is (571) 272-2113. The examiner can normally be reached on M-F 8:00-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



RB

William Perkey
Primary Examiner